

Questions and Answers  
Solicitation W9128F-04-R-0003  
ADAL USAF Hospital  
USAF Academy

**The following questions and answers are provided for informational purposes only.**

Q1. Section 15951 Item 1.2 requires "all services required between new controls indicated on the drawings and the Master Control Room (MCR), Room 1B25 in Fairchild Hall." An existing dedicated copper cable is in place between the Hospital and Fairchild Hall utilizing line drivers. Will a new fiber optic cable be required for this project? The server will be re-located from Room 1B25 in Fairchild Hall to Vandenburg Hall in the very near future.

A1. The AE intended for existing cable to be utilized. However, if the MCR were moved to another building the AE would recommend using fiber optic cable. This item should be sent to the Air Force Academy CE Office for evaluation. The AE was not aware of any plans to relocate the MCR.

Q2. Section 15951 Item 1.7.10 requires "Updates to the software shall be provided for the system..." Although the Hospital has a workstation, it would be necessary to update all fifteen (15)-user licenses, which would be a very costly addition to the project. Will this be required for this project?

A2. Delete requirement of section 15951, para. 1.7.10, and replace with "All software provided for the Hospital DDC system shall be seamlessly compatible with the current EMCS and the hospital work station.

Q3. Section 15951 Item 2.5.3.3 Smoke Dampers. Will the temperature control contractor provide these or will they be the responsibility of the 15985 Contractor.

A3. Smoke dampers are specified in section 15951.

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Temperature Control System, providing the end user with valuable information and decreases the initial installation cost due to limited electrical wiring.

A5. Air Force Academy Standards dictated the approved manufacturers for variable frequency drives. The AE has no objections to using other manufacturers. However, this would need to be approved by the Air Force Academy CE Office.

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A7. All dampers located in the air handlers shall be parallel blade type and dampers located in the ductwork shall be opposed blade type. See next item for specification change.

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A8. Delete requirement of section 15895, para. 2.9.1.7 and replace with "All control dampers indicated on drawing M5-1 as being integral to the air handling unit combination filter mixing box and the return air plenum shall be provided by the air handler manufacturer. Coordinate with the Controls Contractor during the submittal process."

Q9. Sheet M9-1, DDC Points List lists AHU 17 two times. Please clarify.

A9. There is only one AHU-17.

Q10. Is differential pressure monitoring of the Isolation Rooms required?

A10. Not required.

Q11. Government furnished valves is noted per sheet M9-1. Is this limited to VAV box with

reheat coils only, or does it apply to all control valves? In the past, the Government has furnished all control valves.

Q11. It was the AE's understanding that the government would only furnish the control valves at the VAV boxes.

Q12. Drawing M9-1 shows connection to electric lighting meter, should this be noted as Electric Meter?

A12. Electric Lighting Meter should read "Electric Meter for MRI Suite. See electrical drawings for location of meter.

Q13. Please provide a points list and sequence of operation for the MTHWP 1 and 2 and CWP.

A13. Will provide under separate cover.

Q14. Where would I find the legend/ key for the Nurse Call equipment on the disc for USAF Hosp.? I have located the devices on the plans but have had no luck verifying which devices are requested.

A14. Attached please find the drawing EO-2, which has the Nurse Call System legend.



EO-2

COMMUNICATION

From FAX questions received.

A15. Paragraph 1.6.2 of Section 00810 will be revised by Amendment No. 0001.

A16. Sales and Use Tax is addressed in Section 00100, paragraphs 20 and 20.1.

A17. Specific tests are indicated in other specifications sections.

A18. Environmental Permits and Academy Requirements are addressed in Section 01355.

A19. Geotechnical Report not necessary for this addition project. Project provides all the necessary foundation details and requirements for this project.

A20. The Contractor is required to have Performance and Payment Bonds and is required to provide the minimum insurance requirements addressed in Section 00800 of the specifications. The cost of doing business is the Contractor's responsibility until the project is turned over to the Government.

A21. Amendment will be issued to restrict use of elevator for hauling debris (Per Jay Hodges). Other use requires coordination with the Contracting Officer. Section 00810, paragraph 1.4.10. Elevator will not be available to Contractor when the elevator is being used for Hospital operations.

Q22. Will new fiber optic cable be required, as part of ADAL Hospital project, from the Hospital to Fairchild Hall to Vandenburg or will the existing communications interface be acceptable?

A.22 In regards to the Fiber Optics for the EMCS, we have the following update: The server will be moved in a very short amount of time from Fairchild Hall to Vandenburg Hall. New fiber will be installed from Fairchild to Vandenburg as part of this project. It is the intention of this project to install copper to fiber media converters for the existing hospital communications network in Fairchild hall where the communications network currently terminates.

Q23. Please clarify the purchase of the valves. In the past, the Academy has purchased all the control valves due to Buy America Act issues. The valves are made in America, Canada and Switzerland (all designated countries). After reviewing the 00700 (FAR 52.225-11), please clarify the Buy America Act. It appears as that there are contract clauses under \$6.481K and between \$6.481K and \$7.304733 million (Alternate 1) and over \$6.481K. The estimate construction cost is \$15 to \$20 Million, per the solicitation on the website. To what extent does the Buy America Act apply to this project? If we were able to provide my firms manufactured valves under the Designated Countries, I would recommend we provide the valves through the contracting chain. If the Buy America Act does apply, I would recommend having the Air Force Academy contact us directly to purchase all of the control valves.

A23. The value of the contract affects where products required for a project may be obtained. For construction contracts less than \$6.481 million, the Buy American Act as covered by FAR 52.225-9 and FAR 52.225-10 apply. For construction contracts between \$6.481 and 7.304733 Million FAR 52.225-11 with Alternate I and FAR 52.225-11 apply. For construction contracts over \$6.481 Million, FAR 52.225-11 without Alternate I and FAR 52.225-12 apply. FAR 52.225-11 and FAR 52.225-12 cover construction material under the Free Trade Agreements.

For any Government-Furnished and Contractor-Installed items furnished under this contract, the provisions of this contract do not apply. The provisions under the contracts for which the GF/CI items are procured apply.

This means that any GF/CI valve furnished for this contract does not have to follow FAR 52.225-11 and FAR 52.225-12.

Any other item that is CF/CI item under this contract will fall under FAR 52.225-11 w/o Alternate I and FAR 52.225-12. This assumes that the construction contract value is over \$7.304733 Million.

Q24. The following are mechanical questions in reference to the Temporary Swing Space Modular Building as outline in section 13120.

Q24a. The extent of the medical gas requirements is not defined but is indicated, as far as I can determine, on drawing P2-0 only. No capacities are shown for the vacuum pump, A.E. pump, dental vacuum, dental air, and water heater. No sizes are shown for the oxygen, nitrous oxide, and nitrogen piping leaving Room 1Z31. I have not been able to determine number of connections for these gases and their final locations.

Q24b. What is the energy source for the Heating? Natural gas, propane, electric, high temperature hot water, or other?

A24a & b Company found answer after further research of the files.

Q25. It appears that the temporary staging facility will be used by some or all of the departments being renovated. These include, to the best of our understanding, a portion of family practice, medical records and labs, internal medicine, cardio/immunization, oral surgery, ASU suites, general surgery. Our interpretation of the documents has the radiology and surgery suites as remaining open during construction. Please verify whether this assessment is correct and that we may complete all the work in those areas without concern for on-going operations.

A25. In general portions the departments listed for occupation of the staging facility are correct. The ASU suites, however, are not anticipated to occupy the staging facility at any time. You are correct that Radiology and Surgery Suite will remain operational during construction, however work may not be completed "without concern for on-going operations". Close coordination is required in these areas and there are several constraints and limitations identified in the contract documents.

Q26. Equipment Schedule shown on A3-1 has references in the remarks column to Note E-9, which is non-existence. Please provide note E-9.

A26. There is no E-9. This was a duplicate of E-3 or E-7 and should have been removed from the schedule.

Q27. Document 00810, page 11, paragraph 4.9.6.2 states, "In addition to new dust partitions shown, extend existing partitions that surround a given work to the deck and seal to form a complete barrier." If existing walls are not extended to deck currently, we have no mean of knowing that. Please issue a drawing showing the locations of these conditions.

A27. Areas where this condition occurs are shown on the A2 series. An example is the note at the bottom of the sheet on A2-17, which identifies the walls to be extended.

Q28. Document 00810, Paragraph 1.6.2 states the time limit for Phase 1 as 570 calendar days, which conflicts with document 00810, paragraph 1.7.2, which states 540 calendar days. Please issue clarification.

A28. The time requirement of paragraph 1.7.2 is incorrect, and should be changed by addendum to be 570 calendar days.

Q29. Without having the bid documents, we were unable to comprehend the scope of work at the time of the pre-proposal meeting held January 29. Please consider this our formal request for another site visit and request having the project architect prepare a presentation in order to convey information gathered over the past two years of design.

A29. This is required due to the complex nature and unusual logistics of the project.

Q30. We have great concern about General Note 1 as stated on page A1-0, which states, "The demolition plans and the demolition notes intended to guide the contractor, but are not all inclusive. The contractor shall perform all required demolition work required to accommodate construction work indicated throughout these documents." Fulfilling this requirement would require unimpeded access to the space for several days. Since we are not able to have this type of access, we suggest striking this statement from the drawings and produce drawings that show all demolition.

A30. The purpose of this note on the drawings is to alert the contractor to his obligation to provide demolition work as required to install new work indicated elsewhere. Typically, this might involve installation of piping or other utilities through a partition to remain, etc. We have used this note repeatedly, and it has proved to be enforceable. Obviously, this note is not intended to require wholesale demolition of partitions and major construction that is not otherwise indicated on the demo. drawings.

Q31. Likewise, General Note 4 states, "Demolish all existing finishes shown on demolition plans where new finishes are scheduled. (Refer to finish schedule for new finishes)" This would require cross-referencing the demolition plans with the room finish schedule for the entire project. Issuing demolition plans that show wall finishes that require removal is prudent.

A31. This requirement is biddable as presented in the documents. Tedium is unavoidable in working on a major renovation type of project.

Q32. Throughout the demolition notes, there are many references to "all" without further quantification. Please strike this phrase or provide definitive quantities for items removed.

A32. Don't understand the thrust of this comment. Typically quantity requirements are indicated graphically on the drawings. The term "all" means in this context all that are shown.

Q33. Drawing A1-4, note 19 near grid 5-M, no notation of location of temporary partition shown. Please clarify.

A33. This note location is in error. No temporary partition is anticipated at this location.

Q34. Salvaged items are ambiguous. The equipment schedule does not have any items shown as "X," which is designated as "Relocated by Contractor," yet many items are reference Note 18 of typical demolition notes.

A34. The schedule does, in fact, have X designations. For example, M7406S and M7490S are both shown as X items and can be identified by the note 18 on sheets A1-6 and A1-14.

Q35. There is no water line shown to the new modular units, please provide desired size and routing.

A35. Tap in for potable water (EPW) to the modular units is shown in the enlarged detail on C-8.

Q36. Sir - per 00100-16 on the above referenced project questions should have been submitted 20 days prior to bid date, which would have been 2-3-04. Document CD's were issued & received by us on January 29, 2004. (Three business days prior to the deadline.) Will the questions deadline be extended? Is the bid date going to move, since the document issuance was later than previously stated?

A36. An amendment will be issued revising the proposal receipt date to 10 March 2004. Questions can be e-mailed up to 5 March 2004.

Q37. Per sheets A3-1, A3-2 and A3-3, under **EQUIPMENT SCHEDULE**, **LOGISTICAL RESPONSIBILITY**:

How are "owner furnished" items selected by the "owner" and who is the "owner"?

I wish to either provide certain items labeled "F". I am CCR registered and have provided to DOD projects. What is the path for becoming the "owner's vendor"?

A37. The "owner" is the US Air Force 10th Medical Group and they are represented by the Health Facilities Office, Western Region (HFO-WR), San Francisco, CA. HFO-WR has made the selections of "owner equipment" and will also be purchasing. The POC for HFO-WR follows:

CHRISTOPHER PECHACEK, 1LT, USAF, BSC, Assoc. AIA  
Regional Health Facilities Officer  
HQ AFELM/HFO-WR (Health Facilities Office - Western Region)  
333 Market Street, Suite 650  
San Francisco, CA 94105-2196  
COMM: (415) 977-8876 FAX: (415) 977-8864

Q38. There are 2 sets of drawings that show speakers and nurse call devises  
RCP plans  
Communication plans

Which set should I use for devise counts for these sections???

A38. The quantities should be the same between comm. drawings and the reflected ceiling plan drawings. If there are discrepancies it would be helpful to have that information. Barring detailed info. on any suspected coordination issues, the communications plans govern the required quantities.

Q39. Has the bid date been changed? This site visit is currently scheduled after the bid date.

A39. An amendment will be issued today, revising the Proposal receipt date to 10 March 2004.

Q40. Questions received by FAX

A40a. in regards to the questions on the USAF Academy Hospital ADAL Solicitation, the following answers are provided:

1. Amendment No. 0001 will be issued to reflect 570 calendar days for phase completion and 861 calendar days for total project duration.
2. Sales and Use Tax is addressed in Section 00100, paragraphs 20 and 20.1.
3. Specific tests are indicated in other specifications sections.
4. Environmental Permits and Academy Requirements are addressed in Section 01355.
5. Geotechnical Report not necessary for this addition project. Project provides all the necessary foundation details and requirements for this project.
6. The Contractor is required to have Performance and Payment Bonds and is required to provide the minimum issuance requirements addressed in Section 00800 of the specifications. The cost of doing business is the Contractor's responsibility until the project is turned over to the Government.
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Q41. "On sheet A17-2 through A17-19, the reflective ceiling plans are typically not showing the ceiling height elevations for the 2X2 lay-in acoustical grid tile system. Sheet A17-2 does show an acoustical tile ceiling height of 9'-0" at only a few locations. Other sheets are showing only the ceiling height elevations for gyp board ceilings, but not for acoustical tile. I have not seen a note that identifies a specific acoustical tile ceiling height to be used for typical locations. Please clarify."



A41. You forwarded another fax, which asked the question number 1 and a question, which is being reviewed, and a response regarding acoustical ceiling height will be provided.

Q42. On sheet S-4, detail 4, the elevation for the top of the concrete wall references back to plan view on sheet S2-1. The plan view on Sheet S2-1 does not provide a "top of wall" elevation note. Should the top of wall elevation match the adjacent floor slab?

A42. T.O.C. in Detail 4 on Sheet S4-1 refers to elevation 7160.30' per the plan note 1 on Sheet S2-1.

Q43. On sheet A8-18, detail 2, what is the elevation for the top of the 8" CMU wall where it stops and transitions into a 4" CMU wall?

A43. Reviewing all the sections with this typical exterior wall design, the dimension from Fin. Fl. to top of the 8" C.M.U. is 10'-8".

Q44. I don't see zone 1 and zone 1-1 located on drawing E10-7 can you let me know where they are located?

A44a. Zone 1 is defined on Sheet E10-8, Note 1.

A44b. On Sheet E10-8, first floor composite, public address zoning plan, change Zone 1-7 in Ambulatory Surgery to Zone 1-1. Please note item 2 will be required in an amendment.

Q45. Sir - for the above referenced project, we are in receipt of Addenda #1. The new bid form states the bids are due @ 13:00 hours local time. Is this local time of the project or local time of receipt of the bids. Basically is that Mountain or Central time zone as referenced on the bid form?

A45. 1300 Central Standard Time is when proposals are due.

Q46. Next, will the mandatory Pre-bid walk through attendees list be made available to bidders? And with that, will the second walk through list of attendees be made available to bidders?

A46. Both pre-proposal walk through lists of attendees will be made available.

Q47. Drawing E9-9 (FIRST FLOOR COMMUNICATIONS PLAN - BLOCK 1J) is listed on Drawing T1-4.2 (INDEX OF DRAWINGS, VOLUME II), but seems to be missing from the CD sent, as well as the files listed on the website.

A47. The missing drawing will be added in Amendment No. 0002. A corrected drawing reader will be posted to the EBS web site.

Q48. Please review the included information for possible inclusion into the ADAL Hospital project at the Air Force Academy, as a bid alternative or specification amendment.

DALInet Lighting Control System:

- Responsive to any control specification
- Responsive to users
- Responsive to the changing needs of buildings
- Consistent with other building systems
- Requires little, if any, redesign
- Reduces wiring by up to 50%
- Provides a comprehensive feature set

Please find attached:

- Conference room sample design
- DALI System Comparison Table of features
- DALInet System Synopsis

A48. During the design process on the USAF Academy Hospital ADAL project, decisions were made in regards to specifications and concurred with the "end user". We cannot discern in regards to your submitted information, whether your proposed system meets the specifications or not. If your system does not meet the specification requirements, we are un-willing to make changes during the advertisement.

If your products meet the specification requirements, then bid accordingly.

Q49. Sir - The requirements for the Materials testing are spread throughout the specifications. There is not a Single specifications, which encompasses the whole of the scope? Will there be a spec section for this issued at a later date?

A49. Quality Control of Materials Testing is generally covered by Section 01451A Contractor Quality Control. Testing requirements are not the same for all materials. You will need to check each specification section for material testing requirements and for the frequency of the testing. Sometimes, there are even notes on the drawings requiring additional tests. No separate specification section will be provided.

Q50. Sir - It is our understanding that the permits are the contractor's responsibility. Where, or who would we contact to get the permit costs as it applies to building, mechanical, electrical?

A50. Please understand this is a Government contract and permitting (to include the investigation of costs) is your requirement. Building, mechanical and electrical permits are not a requirement on US military installations. A digging permit (which does not cost) is a requirement from the USAF Academy. Please also be aware that the contractor will be required to obtain environmental permits to include the EPA NPDES (SWPPP),

El Paso County Construction Activity permit and the State of Colorado APEN all depending on the size and duration of the disturbed areas.

If you have questions on the digging permit, please contact the Academy Resident Office at 719 333-2973.

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A61. It was the AE's understanding that the government would only furnish the control valves at the VAV boxes.

Q62. Drawing M9-1 shows connection to electric lighting meter, should this be noted as Electric Meter?

A62. Electric Lighting Meter should read "Electric Meter for MRI Suite. See electrical drawings for location of meter.

Q63. Please provide a points list and sequence of operation for the MTHWP 1 and 2 and CWP.

A63. Will provide under separate cover. a separate drawing will be issued by amendment to answer the point's list and sequence of operation for the MTHWP 1 and 2 and CWP question (forthcoming in the next amendment)

Q64. No irrigation specification was included in the documents. Please issue.

A64. No irrigation is required by the project, so no specification has been provided.

Q65. 2. No soil report was included in the documents. Please issue.

A65. Not necessary to include, design is complete.

Q66. Storm Water Permit #COR\*##F expired 2/17/03. Is this in the process of renewal?

A66. Please be aware that the contractor will be required to obtain environmental permits to include the EPA NPDES (SWPPP), El Paso County Construction Activity permit and the State of Colorado APEN all depending on the size and duration of the disturbed areas.

Q67. No interior demo specification was included in the documents. Please issue.

A67. In the opinion of the USACE and the A/E a guide specification for selective interior demolition is not necessary. The scope and requirements of the work are clearly indicated on the drawings.

Q68. C-3 note at south addition states to undercut excavation. Does this apply to east addition or courtyard infill?

A68. Over excavation for foundations requirements are indicated on the drawings. The foundation of the east addition is drilled piers, and preliminary soils report for the area of the infill addition indicates no requirement for over excavation.

Q69. Can you provide further explanation to P-3.3.2 in section 02468N?

A69. Don't know of anything else that needs to be said in regards to this. The paragraph deals with the requirement to provide a test boring at the bottom of the caissons to verify bearing capacity at each caisson. USACE/ A/E does not believe any spec. change is warranted in re: to this.

Q70. Spec 08600, page 5, P1.6 references South Florida. What is the requirement for this project?

A70. No change is necessary to the specs for this item. The test was simply performed in a lab in Florida.

Q71. There is no specification for thermal or acoustical insulation. Please provide.

A71. Will provide under separate cover (Amendment).

Q72. Spec 13090A, page 5 P-2.6.3; Please verify the word "not" should be added after "This partition has..."

A72. No change to the specification is required.

Q73. "On sheet A17-2 through A17-19, the reflective ceiling plans are typically not showing the ceiling height elevations for the 2X2 lay-in acoustical grid tile system. Sheet A17-2 does show an acoustical tile ceiling height of 9'-0" at only a few locations. Other sheets are showing only the ceiling height elevations for gyp board ceilings, but not for acoustical tile. I have not seen a note that identifies a specific acoustical tile ceiling height to be used for typical locations. Please clarify."

A73. Typically, throughout the reflected ceiling plans, the miscellaneous ceiling height symbols represent the height of gyp. bd. furring from fin. floor. Typically, the lay-in ceiling heights are indicated in the finish schedule.

Q74. Drawing E9-9 (FIRST FLOOR COMMUNICATIONS PLAN - BLOCK 1J) is listed on Drawing T1-4.2 (INDEX OF DRAWINGS, VOLUME II), but seems to be missing from the CD sent, as well as the files listed on the website.

A74. Answered previously, reader will be corrected for access to this drawing.

Q75. Section 16710, 1.6.3.1 indicates the contractor shall have a minimum of 3 years experience in the application, installation and testing of the specified systems and equipment. This section requires that the contractor has installed Category 6 cable plants since February, 2001 (approximately). The ANSI EIA/TIA standards group did not ratify a Category 6 standard until June of 2002, thus making it impossible for any contractor to meet the 3-year minimum experience requirement. Recommend that this requirement be changed to include relevant Category 5e installation experience.

A75. The intent of this paragraph is to require the contractor to have experience in the installation of systems of similar size and character. The contractor shall have technicians with experience and education for the installation of category 6 systems and projects of this size. The contractor shall have experience installing voice and data networks for projects of this size and character. The paragraph is OK as written.

Q76. Section 16710, 2.3.2.2 seems to indicate a requirement for a Category 6 rated 25-pair cable. I have checked with several cable manufacturers (e.g., Mohawk, Belden, Berk-Tek, etc.), and none manufacture a 25-pair, Category 6 cable (the highest rated 25-pair cable was a Category 5e). Please clarify.

A76. We will issue an amendment changing the 25 pair cable to individual 4pr UTP, Cat. 6 cables. Thanks.

Q77. Section 16710, 2.4.4 specifies one patch cord (RJ-45 to RJ-45) will be provided for every two outlets, and the cable lengths will be as directed by the resident engineer to a maximum of 12 feet and 3 lengths. Request that specific patch cord lengths be identified so that all Contractors bid on the same items.

A77. Since these quantities cannot be determined at this time, please provide the worst-case cost based on the maximum length and various mixes of quantities.

Q78. Section 16710, 2.4.4 specifies one patch cord (RJ-45 to 110 Block) will be provided for every two outlets, with the cable lengths as specified by the resident engineer to a maximum of 12 feet and 3 lengths. Request that specific patch cord lengths be identified so that all Contractors all bid on the same items.

A78. Since these quantities cannot be determined at this time, please provide the worst-case cost based on the maximum length and various mixes of quantities.

Q79. Section 16710 does not contain any information as to the type of fiber optic connectors (e.g., SC, ST, etc.) the Contractor is to use when terminating the multimode and single mode optical fibers. Please clarify.

A79. Please see specification paragraph 2.4.4.2 for connector type (SC). Also provide SC connectors for single mode cables.

Q80. Section 16710 does not contain any information as the type and quantity of fiber optic patch cables the Contractor is to provide. Please clarify.

A80. Please see paragraph 2.4.4.2 for the panel specification and the drawings of the rack elevations, which show the number of ports, etc.

Q81. On sheet A2-9, at the Mammography/Ultrasound area, many of the wall type designations are not listed for the new walls. Please provide the wall type designations.

A81. Any wall not noted by a specific wall type is wall type 1 per General Note 2 on A2-9.

Q82. On sheet A2-9, at Corridor 1JC2, next to Door 1J30, the wall is shown to be patched to match existing. What is the existing wall type designation at this location.

A82. Existing wall types are shown on A1 series as appropriate. This particular location identifies an existing wall type 4 on A1-9, which is shown in section on A1-27.

Q83. On sheet A2-9, at Corridor 1JC3, directly across from the door into X-Ray 1J23, the wall is shown to be patched to match existing. What is the existing wall type designation at this location?

A83. Similar to wall type 5.

Q84. Please verify that the concrete psi for Drilled Piers should be at 3000 psi.

A84. The required strength of the drilled piers is 3000 psi as shown in Section 02468N (page 2) of the specifications.

Q85. I noticed today that AHU 4 and 5 on sheet M2-1 and M5-1 do not show the minimum airflow measuring stations. These are required on Sheet M9-1 and shown on sheets M2-2 and M2-8 for the remaining air handlers. What size is required and where are they to be located?

A85. See attached 8 1/2 x 11 drawing for size and locations of airflow measuring stations.

Q86. Also, the Operating Room terminal unit controls requires a High Limit Humidity Sensor located approximately 10' downstream of the humidifier to override the humidifier controls to stop humidification if duct humidity rises above 90% RH. This can be easily accomplished with a High Humidity Switch, thus reducing material cost and allowing the controls contractor to provide a standard platform controller. Will the High Humidity Switch be allowed in place of the High Humidity Sensor?

A86. Changing humidity sensors downstream of the operating room terminal units to humidity switches will not be allowed. The Omaha District / AE would prefer to leave sensors as shown on the bid documents. The sensor can modulate steam valve and reduce steam flow to maintain minimum requirement in lieu of shutting down the system completely.

Q87. It appears that the temporary staging facility will be used by some or all of the departments being renovated. These include, to the best of our understanding, a portion of family practice, medical records and labs, internal medicine, cardio/immunization, oral surgery, ASU suites, general surgery. Our interpretation of the documents has the radiology and surgery suites as remaining open during construction. Please verify whether this assessment is correct and that we may complete all the work in those areas without concern for on-going operations.

A87. In general portions the departments listed for occupation of the staging facility are correct. The ASU suites, however, are not anticipated to be occupy the staging facility at any time. You are correct that Radiology and Surgery Suite will remain operational during construction, however work may not be completed "without concern for on-going operations". Close coordination is required in these areas and there are several constraints and limitations identified in the contract documents.



Q88. Equipment Schedule shown on A3-1 has references in the remarks column to Note E-9, which is non-existence. Please provide note E-9.

A88. There is no E-9. This was a duplicate of E-3 or E-7 and should have been removed from the schedule.

Q89. Document 00810, page 11, paragraph 4.9.6.2 states, "In addition to new dust partitions shown, extend existing partitions that surround a given work to the deck and seal to form a complete barrier." If existing walls are not extended to deck currently, we have no mean of knowing that. Please issue a drawing showing the locations of these conditions.

A89. Areas where this condition occurs are shown on the A2 series. An example is the note at the bottom of the sheet on A2-17, which identifies the walls to be extended.

Q90. Document 00810, Paragraph 1.6.2 states the time limit for Phase 1 as 570 calendar days, which conflicts with document 00810, paragraph 1.7.2, which states 540 calendar days. Please issue clarification.

A90. The time requirement of paragraph 1.7.2 is incorrect, and will be changed by addendum to be 570 calendar days.

Q91. Without having the bid documents, we were unable to comprehend the scope of work at the time of the pre-proposal meeting held January 29. Please consider this our formal request for another site visit and request having the project architect prepare a presentation in order to convey information gathered over the past two years of design. This is required due to the complex nature and unusual logistics of the project.

A91. Added by amendment.

Q92. We have great concern about General Note 1 as stated on page A1-0, which states, "The demolition plans and the demolition notes intended to guide the contractor, but are not all inclusive. The contractor shall perform all required demolition work required to accommodate construction work indicated throughout these documents." Fulfilling this requirement would require unimpeded access to the space for several days. Since we are not able to have this type of access, we suggest striking this statement from the drawings and produce drawings that show all demolition.

A92. The purpose of this note on the drawings is to alert the contractor to his obligation to provide demolition work as required to install new work indicated elsewhere. Typically, this might involve installation of piping or other utilities through a partition to remain, etc. We have used this note repeatedly, and it has proved to be enforceable. Obviously, this note is not intended to require wholesale demolition of partitions and major construction that is not otherwise indicated on the demo. drawings.

Q93. Likewise, General Note 4 states, "Demolish all existing finishes shown on demolition plans where new finishes are scheduled. (Refer to finish schedule for new finishes)" This would

require cross-referencing the demolition plans with the room finish schedule for the entire project. Issuing demolition plans that show wall finishes that require removal is prudent.

A93. This requirement is biddable as presented in the documents. Tedium is unavoidable in working on a major renovation type of project.

Q94. Throughout the demolition notes, there are many references to "all" without further quantification. Please strike this phrase or provide definitive quantities for items removed.

A94. Don't understand the thrust of this comment. Typically quantity requirements are indicated graphically on the drawings. The term "all" means in this context all that are shown.

Q95. Drawing A1-4, note 19 near grid 5-M, no notation of location of temporary partition shown. Please clarify.

A95. This note location is in error. No temporary partition is anticipated at this location. Note will be deleted by amendment.

Q96. Salvaged items are ambiguous. The equipment schedule does not have any items shown as "X," which is designated as "Relocated by Contractor," yet many items are reference Note 18 of typical demolition notes.

A96. The schedule does, in fact, have X designations. For example, M7406S and M7490S are both shown as X items and can be identified by the note 18 on sheets A1-6 and A1-14.

Q97. There is no water line shown to the new modular units, please provide desired size and routing.

A97. Tap in for potable water (EPW) to the modular units is shown in the enlarged detail on C-8.

Q98. The question regarding Note 3 on S2-4 states to fill room with 3000 psi concrete and to see arch for limits of room, but architectural drawings do not show any fill being installed - will be answered shortly.

A98.

Q99. The extent of the medical gas requirements is not defined but is indicated, as far as I can determine, on drawing P2-0 only. No capacities are shown for the vacuum pump, A.E. pump, dental vacuum, dental air, and water heater. No sizes are shown for the oxygen, nitrous oxide, and nitrogen piping leaving Room 1Z31. I have not been able to determine number of connections for these gases and their final locations.

A99. The medical gas outlet requirements are indicated on the architectural floor plan sheets provided. The definitions of the various pieces of equipment shown on these plans

are provided in the medical equipment list included in the bid documents. Piping is required to be provided to support each piece of medical equipment device indicating a requirement for medical gases. The systems are to be designed and installed accordingly.

Q100. What is the energy source for the Heating? Natural gas, propane, electric, high temperature hot water, or other?

A100. Electric as indicated in the documents.

Q101. Fixture Schedule Note 7 states that fixtures are to be dual ballast when shown switched separately. Reference drawing E3-3, room's 1B40 and 1B39. Both of these rooms have "C2" fixtures. Fixture Schedule indicates this to be a 3-lamp troffer with a dimming ballast. Room 1B40 has dual level switching, but 1B39 has a single switch. Neither have dimmers. Two questions regarding "C2" fixtures:

Q101a. Are these fixtures to include the more expensive dimming ballasts even though they are not connected to a dimmer? Question # 1 applies to "J5" fixtures also. "J5" fixtures have dimming ballasts, but are not circuited to dimmers.

A101a. No. Understood. Amendment to be issued.

Q101b. Would the correct approach for these rooms be to provide a single ballast fixture for the single switched room fixtures, and a double ballast fixture for the double-switched room?

A101b. Yes. Dual switching as shown is required for the two ballast fixtures.

Q102. We are in the process of submitting a floor covering bid to several contractors and I am unable to find the finish schedule for the Temporary Swing Space Modular Bldg. Could you please refer me to the correct page where I might find this information. The Finish Schedule (7 pages) included with this solicitation does not have the info on the Temp Modular Bldg.

A102. The finish requirements of the modular temporary building are included in the modular building specification section.

Q103. 1. With reference to specification section 04200, page 7, item 2.4.3, please provides information to identify the existing glazed tile "color" and "manufacturer".

A103. The existing product is no longer manufactured. It will be necessary to provide a matching product that is a satisfactory match to the existing.

Q104. 2. On Sheet S5-1, details, 3, 4, 7, & 8, the top of cmu wall does not show the use of 4" cmu, whereas on sheet A8-2, details 1 & 2, and on sheet A8-3, details 1, 2, & 3 do show the use of 4" cmu above the 8" cmu. Please clarify which top of wall condition is to be used.

A104. Details 7 & 8 on Sheet S5-1 refer to details 1/A8-19 for additional information. There was a similar note on the other details. The 4" CMU is not shown on the structural drawings for clarity. 4" CMU infill is required as shown on the architectural drawings.

Q105. On sheet A8-18, detail 2, what is the elevation for the top of the 8" CMU wall where it stops and transitions into a 4" CMU wall? The top of wall details on sheet S5-1 indicates that the top of the 8" cmu wall is just below the steel structure. If the top of the 8" cmu wall is held to 10'-8", and the top of steel is at 16'-2", is it correct to assume that 4" cmu is to be used from the 10'-8" elevation up to the top of the steel?

A105. The 8" CMU should terminate in order to make the connection shown on the structural drawings. 4" CMU infill is used above that point as shown on the architectural drawings.

Q106. With regard to the use of masonry bond beam at cmu walls, the enlarged details on the structural drawings indicate a top of wall bond beam course but do not identify if any intermediate bond beam courses are to be used. Structural notes do not provide any bond beam information, and the specifications do not address intermediate bond beam courses. Please clarify if intermediate bond beam courses are required, and if so where?

A106. The CMU is laid in running bond. Intermediate bond beams are not required.

Q107. On sheet A2-8, the plan view shows a Louver L4 at the wall along grid line G4, between grid lines 17.1 and 17.5, whereas the building elevation 3/A7-2 does not show Louver L4. Please clarify.

A107. The plan view on sht. A2-8 is correct & the louver schedule (A10 series drawings) is correct. Building elevations 1/A7-2 & 3/A7-2 & pre-cast conc. panel elevation 4/A7-5 do not show louver correctly & should reflect what is indicated on plan & in the louver schedule.

Q108. The steel in the crawlspace is being left exposed. Can low density fireproofing (15 pcf) be used in the crawlspace or must medium density fireproofing (22 pcf) be used?

A108. Bid the documents as indicated.

Q109. Which type of fireproofing is required for the electrical and communications rooms' medium density (22 pcf) or high density (40 pcf)?

A109. Bid the documents as indicated.

Q110. A sealer is not required for the fireproofing material that we use. Is a sealer required in any area of the new additions?

A110. Bid the documents as indicated.

Q111. Note 3 on S2-4 states to fill room with 3000 psi concrete and to see arch for limits of room, but architectural drawings do not show any fill being installed. Please clarify.

A111. The architectural drawings show the size of the room. All information needed to price the fill material is provided.

Q112. On sheet S2-4, Note # 3 identifies a "new radiology room" in the area between column lines D & E, and between column lines 15 & 14. Note # 4 on sheet S2-5 also refers to this "new radiology room" .... "see arch. for limits of room". I cannot find a "new" radiology room on the architectural drawings at this location, specifically on sheet A2-15. The demolition drawings, sheet A1-1, shows an existing radiology file room at this location, indicating a moveable file system on a recessed floor. The existing floor elevation is not provided. The section cut 5/S4-4 indicates that the existing floor at this location slopes, but does not identify the lower elevation of the slope. Please clarify if the floor actually slopes, and if so, identify the low elevation, or can you clarify if the concrete fill for the entire room is only to be 8".

A112. The fill varies from 1" thickness to 13". An amendment to add a note to Sheet S2-4 which will read: "Note: Existing floor level slopes from 1" below FF to 1'-1" below FF." will be issued.

Q113. The specifications and drawings do not go into great detail as to the installation methods for the horizontal cabling (the Category 6 voice and data cabling). It is assumed that the horizontal data cables will terminate to the rack mounted 48-port patch panels, but it is unclear if the horizontal voice cables are to terminate to the rack mounted TBCB-100 panels, or to the wall mounted 110-blocks.

A113. All horizontal cabling (voice and/or data) terminates on the patch panels. The TBTC's are for the backbone cabling.

Q114. 2. It appears the number of Category 6 and TBCB-100 panels do not come close to matching the number of horizontal voice and data cables, based on a comparison of the number of cables identified on the drawings, with the number of panels identified on the rack elevations. For example: Rm 1B10 supports the cables distributed to the rooms in Blocks 1A and 1B. The rack elevations shown on E10-6 show three, TBCB-100 panels (capable of supporting 300-pair) and 15, 48-port patch panels (capable of supporting 720 cables). There are a total of 164 voice and 298 data cables identified in Blocks 1A and 1B. If the horizontal voice cables (equal to 656 pair) are supposed to terminate to the rack mounted TBCB-100 panels, then there is insufficient capacity identified in the rack elevation drawings. Conversely, there appears to be a huge excess in the number of data ports available on the patch panels (720) when compared to the number of data cables being installed (298).

A114. All horizontal cabling (voice and/or data) terminates on the patch panels. The TBTC's are for the backbone cabling. The number of ports in the patch panels is based on 4 patch panel ports per outlet plus spare ports for the future. If you take the number of voice/data outlets and multiply by 4 then time 125% you will be close to the number of ports we have shown.

Q115. Can I get a copy of the building asbestos survey report to see more specifics on type of asbestos found, quantities, and condition? I have looked through the specifications and cannot find this important report.

A115. It has been decided that the Asbestos Survey report will be released in a forthcoming amendment.

Q116. I was hoping that one of you would be the right person to make contact with for the US AFA Hospital expansion. Several GC's have requested information for the BID for furniture, yet none of them can provide specifics. I have a copy of the CD that was provided to the GC's and I can't find anything as well. If both of you could either respond, or direct me in a better direction, I would appreciate it.

A116. The USAF Academy is responsible for the procurement of furniture for the Hospital Addition/Alteration. Points of Contact are:  
Mr. Bruce White - 719.333.5120 or  
1LT Chris Pechacek - 415.977.8876

Q117. Note 6 on Sheet M2-6 and note 1 on sheet M2-6A require that all supply air ductwork and accessories downstream of terminal units serving operating rooms shall be "corrosive resistant steel" (CRS). Is galvanized steel acceptable? If not, what material is acceptable?

A117. the next amendment for the subject solicitation will include the following:  
Add note number 13 to General Notes on drawing MO-1:  
13. Where corrosive resistant steel (CRS) duct is indicated on the drawings for supply and return ducts it shall be stainless steel or aluminum. Where indicated for hood exhaust ducts on the drawings it shall be stainless steel only.

Q118. Is there a negative air requirement for the renovated areas during construction?

A118. Yes. This item will be addressed by Adding a sentence to HVAC Phasing note No. 1 on Sheet M0-2 as follows: "Maintain negative pressure in renovated areas during construction activities within these spaces".

Q119. Question: Is there a Infectious Disease Control program in place for the project?

A119. The requirements for temporary protective barriers and methods are indicated in the documents. Any medical infection control program is being administered by the Air Force Medical Group.

#### Temporary Buildings

Q120. Drawing P2.0- The detail for room's 1Z30 & 1Z31 shows medical gas equipment for the temporary buildings. Does the mechanical contractor supply the medical gas equipment OR does the equipment come with the temporary building?

A120. The division of the work between subcontracted trades is the responsibility of the General Construction Contractor.

Q121. If the mechanical contractor is to supply the equipment where is it scheduled?

A121. See response above.

Q122. There is no medical gas system detailed in the temporary building. If the building is supplied with a medical gas system, who is responsible for making the connections between the building sections and who is responsible for certification.

A122. See response above.

Q123. Who is the Authority having Jurisdiction for the Medical Gas inspections?

A123. Contracting Officer.

Q124. Do the sanitary waste and domestic water systems have similar issues as the medical gas system?

A124. The A/E does not understand this question. What issues?

Q125. Where are the point of connections for the sanitary waste and domestic water for the temporary building?

A125. Points of connection are indicated on the drawings. The bidder must refer to the complete set of documents, including civil, MEP drawings, and specifications.

Q126. SECTION 08120, ALUMINUM DOORS, FRAMES AND STOREFRONTS:

A126a. Paragraph 1.2.1, Structural: we will delete the sentences in the first 9 lines, beginning with “Exterior doors, frames...” and ending with “... level of performance.”

A126b. Paragraph 1.2.4.1, Condensation Resistance Factor: In the second line, we will change “76” to “70”.

A126c. There is no conflict in the Specifications. “Flush Glazing” simply means that there cannot be any glazing stops projecting beyond the primary-framing members.

A126d. HW-102 is being revised by Amendment.

Q127. SECTION 08810, GLASS AND GLAZING:

A127a. Paragraph 2.1.2, Tinted Glass, we will change the last sentence to read as follows:

“Provide as a component of insulating glass types ‘A’ and ‘B’.”

A127b.Paragraph 2.4, Laminated Glass, we will change this paragraph to read as follows:

“Laminated glass shall consist of two layers of glass bonded together with 0.030-inch thick PVB interlayer under pressure. Laminated glass is required as a component of glass types ‘A’ and ‘B’ and as glass types ‘C’, ‘F’ and ‘G’. See the glass legend on the drawings for the particular glass used in each laminated pane.”

A127c. Paragraph 2.5.1, Ceramic-Opacified Spandrel Glass, we will change the last two sentences to read as follows:

“Color shall match existing (black or dark bronze). Provide as a component of laminated spandrel glass.”

A127d. and we will add the following new paragraph after Paragraph 2.7:

#### “2.8 PREFINISHED FOAMED METAL PANELS

Metal panels glazed into the aluminum window wall shall consist of an EPS or ISO foam core with 1/8-inch thick tempered hardboard stabilizer sheet on each face and 0.024-inch thick smooth aluminum facings over hardboard. Components shall be laminated under pressure to form one-inch thick panels for glazing. Exposed aluminum faces shall receive a high performance 3-coat fluoropolymer finish complying with AA-C12C40R1x. Color shall match existing, which is a dark color such as black or dark bronze. Top and intermediate coats shall contain not less than 70 percent polyvinylidene resin by weight.”

#### Q128. DRAWING NOS. A5-9, A5-10, A9-1, AND A9-2, GLASS LEGEND:

A128a. In the description of glass type ‘A’, we will delete the word “laminated” in the second line.

A128b. In the description of glass type ‘B’, we will delete the word “laminated” in the second line and add the word “laminated” after 1/4” in the third line.

A128c. Door 1NC3 shall have a height of 7’-0”.

128d. Provide the glass as specified.

A128e. No. Remove H3 head detail symbol for doors 1E07, 1E10, and 1E14 in Door Schedule Sheet A5-2.

A128f. North elevation at 1/A7-1 shall match north elevation 3/A7-1. There shall be no door transom at door 1QC11.



A128g. Change pre-finished foamed metal panel thickness from 1" to 1-3/4" at window types W13 and W14 on Sheet A9-2, as shown in detail H7/A5-7.

A128h. Door 1Q22: Doorframe in the schedule is aluminum, which is correct. The door is type A, which is correct; this door is supplied by EM manufacturer.

Q129. Is the Temporary Phasing Facility pre-piped for fire sprinklers?

A129. The bid documents (Specification 13120, 2.5.5, and Drawings FS19-0 & FS19-1) show fire sprinklers and associated piping in the Temporary Phasing Facility. Contact your prime contractor on how he proposes to accomplish this.

Q130. The phasing of this project will require the new piping for the sprinkler systems to be tied into the existing piping if the fire sprinkler systems are to remain in service during construction. This is a concern due to the adverse affects on the new piping system that could be caused by the existing piping system.

Q130a. The old piping system has corrosion, bacteria, and possibly M.I.C. that will be introduced into the new piping system.

A130a. These are normal issue, which arises with all such sprinkler system modifications. However, these problems should be minimal for this project as follows:

- 1) The existing sprinkler system is only about 6 years old.
- 2) The bid documents require flushing and disinfect ion of all new and existing piping to remain.

Q130b. Disturbed corrosion from the old piping system could be trapped in the drops to new sprinklers. Flushing the system will not remove this. Each time the systems are drained and refilled more pieces of corrosion could be introduced into the new system piping. If the sprinkler systems are to remain in service during construction the systems will need to be drained and filled daily. This is also a concern in regards to the sprinkler systems on the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> floors that are to remain.

A130b: See answer to 2.a. above regarding corrosion. See answer to question below regarding daily safety measures.

Q131. The question is; Are the existing sprinkler systems that are to remain and the new sprinkler systems to be kept in service and fed from the existing supply piping during construction?

A131. The day-to-day and longer-term life safety measures are addressed on Drawing FS0-1, General Note 1 and in referenced Specification Section 00810, specifically in paragraph 1.5.

Q132. For the referenced project is Seismic Protection for mechanical & electrical equipment required?

A132. This project is in Seismic Design Category "B". There is not any special anchorage or bracing requirements for seismic loads other than the equipment cannot be held in place by friction only. There must be some form of positive anchorage such as bolts.

The exception to this is piping that is classified as essential or hazardous must have seismic restraint in Seismic Design Category "B". However, there are 8 exceptions to this rule where seismic bracing is **not** required for hazardous or essential piping.

Gas piping of less than 1-inch inside diameter.

Piping in boiler and mechanical rooms of less than 1.25-inches inside diameter.

All other piping of less than 2.5-inches inside diameter.

All electrical conduit of less than 2.5-inches inside diameter.

All rectangular air-handling ducts of less than 6 sf in cross-sectional area.

All round air handling ducts less than 28-inches in diameter.

All piping suspended by individual hangers 12-inches or less in length from the top of pipe to the bottom of support for the hanger.

All ducts suspended by hangers 12-inches or less in length from the top of the duct to the bottom of the support for the hanger.

In summary, the only seismic restraint required would be for hazardous or essential piping that does not meet one of the exemptions listed above. This facility is not classified as an essential facility so the only piping affected would be hazardous piping not meeting the exemptions listed above.

Q133. We were looking for reference to TI 809-04 and did not find any mention in specification 13000, 15000 or 16000.

A133. Our conclusion, given the Air Force Academy Hospital contains no essential and no hazardous piping and given that all equipment has positive anchorage based on other requirements, no special seismic anchorage or bracing is required for the mechanical and electrical equipment. Therefore, no references are contained in specifications for seismic anchorage for such equipment.

Q134. Is Customer Witness Testing required for the low voltage panel boards. This is not a typical request and can be costly for minimum benefit. We were planning on including witness testing for the pad mount transformer, but thought that the panel board requirement may not be necessary. Please advise.

A134. *Customer Witness Testing is not required for panel boards.*

Q135. Specification Section 16415A under Fault Current / Coordination Study requirements, references a requirement for the fault current study to be included with the submittals. This is normally something we provide after the project has been approved and released and

before it has shipped. I realize this may be a requirement due to concerns regarding possible last minute changes, however, I can assure you if changes are required due to fault current study findings, we will make sure the appropriate changes are addressed.

A135. Provide coordination study after approved submittals and prior shipping the material is acceptable.

A136. Drawing E10-2 (voice single line diagram) indicates a 200-pair cable is to be routed between 0013B and 1E31. Drawing E10-6 (rack elevations) only shows 1, TBCB-100 in rack REQR-1E31A.

A136. See above for amendment item. Drawing E10-6, REQR-1E31A Elevation, provide one additional 100 pair connector block and wire manager for a total of 200 pair of capacity.

Q137. Drawing E10-2 (voice single line diagram) indicates a 400-pair cable is to be routed between 0013B and 1B10. Drawing E10-6 (rack elevations) only shows 3, TBCB-100 in rack REQR-1B10A.

A137. See above for amendment item. Drawing E10-6, REQR-1B10A Elevation, provide one additional 100 pair connector block and wire manager for a total of 400 pair of capacity.

Q138. Section 16710, 2.4.3 (Connector Blocks) states "Provide blocks for the number of horizontal and backbone cables terminated on the block plus 25 percent spare. Connector blocks shall be rack mounted on a 19 inch plate or wall mounted as shown on drawings."

Q138a. If the horizontal data and voice cables are to be terminated to the Category 6 patch panels (as you indicate below), then recommend para 2.4.3 be revised accordingly.

A138a See above for amendment item. Specification section 16710 2.4.3, delete "plus 25 percent spare" from first sentence. Add the following sentence to the end of this paragraph "Type 110 blocks shall be category 5e rated."

Q138b. Is a 25% spare capacity required for the rack mounted TBCB-100 blocks? If so, then additional TBCB-100 blocks will need to be added to each new telecommunications closet to provide this spare capacity.

A138b. See above for amendment item.

Q139. Are standard, wall mounted, Category 3, 110-blocks acceptable termination blocks for the backbone cables terminated in 0013B?

A139. OK, but use category 5e blocks.

Q140. The Air Terminal Unit VAV-RH & CV-RH schedule found on M8-3 is missing two units. They are identified on drwg M3-6A as 16LL and 16MM and located north of column line J at 9 and 12.

A140. Drawing M3-6A: Air Terminal Units located north of column line J should be labeled as 5/LL and 5/MM in lieu of 16/LL and 16/MM.

Q141. On Drawing C-6 the concrete stairway is noted to be "similar" to the stair section shown on A8-4. Is the cheek-wall required for the concrete stair on drawing C-6? Are safety nosings required for the stairway on drawing C-6?

A141. Cheek wall is required for this stair. If the second part of the question is referring to safety nosings the answer is yes, they are required for these stairs.

Q142. Per not B.6 on drawing S1-1, please identify the "lane width" for placing floor slabs on grade.

A142. The lane width coincides with the slab joint layout. A lane would be slab joint to slab joint. The pour would extend the length of a lane with the transverse joints created with saw cuts.

Q143. Per the current bid form, is it the intent to provide a unit price for asbestos abatement extended by the quantities listed on the bid form?

A143. Yes

Q144. Are any dollars to be included in the Base Bid for abatement or just the unit prices and their extensions?

A144. Any abatement work that is not denoted by unit pricing should be contained with the Base Bid.

Q145. What about abatement of floor mastic, where should this be included? Please advise.

A145. See previous answer.

Q146. Please clarify what the actual steam pressure will be in the supply to the steam-to-steam humidifiers SG-2 and SG-3. This information is needed for proper sizing of the heat exchanger.

A146. The steam pressure supply to these steam generators is shown in the schedule on drawing M8-2.

Q147. A. Please confirm if this project is to be a blast resistant project.

A147. Some areas of the building are and some areas are not. The deletion of the sentences in the first nine lines of Section 08120, paragraph 1.2.1, clearly deletes the 1-psi requirement for aluminum framing.

Q148. If not, what will be the design criteria for aluminum framing/glass? With the first 9 lines of Specification section 8120 1.2.1 deleted, we do not have all of the structural requirements.

A148. I do not agree with you. The remaining verbiage in para.1.2.1 clearly states the structural requirements.

Q149. A.2. Please confirm if the design intent is for a 4 ½" depth aluminum storefront (which will not meet 1 PSI design if required, per two suppliers review).

A149. See responses above.

Q150. The following questions are applicable only if a blast resistant design is required:

Q150a. If the project is to be a blast resistant project, is the structural design 1 PSI?

Q150b. If we have a 1 PSI design requirement, a 7 ½" depth curtain wall system will be needed to meet the imposed loads.

Q150c. Please advise if the 7 ½" systems will move to the outside of the drawn vertical location or move to the inside of the building. If moved to the inside, all the perimeter conditions will change and new anchorage attachment points will need to be drawn to accept the imposed loads as the system will move 3" inside the face of the building. Please provide new details if moved to the inside.

Q150d. Curtain wall systems have the entire glazing stops consisting of a pressure plate and face cover projecting beyond the back primary framing member, but is included in the overall 7 ½" depth.

Q150e. If a 1 PSI load is required and blast resistant design is required, I'm told that a 1 5/16" glass thickness will be required, consisting of ¼" outboard glass lite, ½" air space, and a 9/16" laminated inboard lite of glass for glass types A & B.

Q150f. Will the louvers have any special blast resistant capabilities?

A150f. No.

Q151. Please confirm if the bottom of the upper intermediate horizontal member is to be set at 7'0" height to match the storefront door heights at window types W1 thru W9.

A151. The bottom of the upper intermediate horizontal member shall be set at 7'-0" above finished floor. On exterior window schedule sheet A9-3 the dimension of 4'-3" or 4'-3(+ or -) between the upper intermediate horizontal member & lower intermediate horizontal member, the dimension should be 4'-4"

Q152. D. As of yesterday, I'm told the glass types F (also G) is not available with frosted glass both sides (Frosted edges are not available). I'm told the last supplier in the United States to do this process, North West Industries in Seattle, WA at 1-800-426-2771, quit this process of laminating two frosted pieces of glass approximately 2 ½ to 3 years ago as noted at detail B&C/A5-10. The suppliers can laminate two pieces of clear glass with a white diffused interlayer to create a frosted look, which also protects against finger print marks. Finger print marks are difficult to keep clean, etc. due to oily residues from the human body. The process of all laminated glass industry standards allow for the two lutes of glass to be slightly offset. Will this offset be acceptable or will ¾" tempered glass without lamination be acceptable?

A152. Tempered glass would be acceptable.

Q153. Detail 6/S5-2 called from grid line D-6 on sheet S2-8 calls for concrete fill on roof, but none of the other sections call for concrete. Please clarify.

A153. Detail 6/S5-2 is not a roof detail and does not call for concrete fill on the roof. It is a section at the interstitial space for ductwork above a portion of the courtyard infill work. See also Sections 7 and 8 on Sheet S5-2.

Q154. Drawing C-2 calls for Type A Asphalt Paving in the parking lot, but the demolition plan, C-1 and Enlarged Modular Building Plan, C-8 do not call for the existing asphalt to be removed. Please clarify.

A154. C-1 shows asphalt paving demolition where required. C-8 does not show new final work required, just the temporary modular building setup. C-2 is correct. The requirement is for overlay paving of the existing paving in the area indicated.

Q155. T1-2.1 show pressure regulating valves as details on C-5 and 9, which should actually be C-10. What is the shutdown procedure for removing these valves?

A155. The requirement to install the new pressure reducing valves before removing the existing pressure reducing valves is called for on Sheet T1-2.1, note no. 3. A change will be issued to alter reference on Sheet No. T1-2.1, at Detail No. 7 from C-5 and C-9 to C-10.

Q156. Doors in the temporary modular are generically defined. Will solid core pre-hung doors suffice?

A156. The requirements for the doors are clearly indicated in the specs. Pre-hung doors may be used at the supplier's option.

Q157. What is to be done with the new medical specialties and wall protection in the modular when they are removed?

A157. Unless indicated otherwise, these items will be contractor salvage items to be removed from the site upon removal of the modular unit.

Q158. Detail 6 on Drawing S4.6 requires permanent shoring as design-build. Without having a soil report, it is not possible to engineer this wall. Please provide a soil report.

A158. Soils report will be issued.

Q159. Where does the detail called "Section Through Exist. Stair" occur?

A159. There is no sheet reference given for this question. We do not know where it occurs.

Q160. In a previous response to: "General Note 4 states, "Demolish all existing finishes shown on demolition plans where new finishes are scheduled. (Refer to finish schedule for new finishes)" This would require cross-referencing the demolition plans with the room finish schedule for the entire project. Issuing demolition plans that show wall finishes that require removal is prudent," you replied

A160. "This requirement is biddable as presented in the documents. Tedium is unavoidable in working on a major renovation type of project."

Q161. This might be true if the existing demolition room numbers matched the revised room numbers, but they don't. Cross-referencing is difficult when the information provided is of the same basis. With the bid date drawing near, it is imperative to have clarification on this issue.

A161. Generally speaking, most of the renovation work shown in the existing building requires demolition of existing interior construction and replacement with new interior construction, including partitions, door, finishes, etc., as indicated. So, generally speaking, all existing finishes indicated in the existing finish schedule boxes on the demolition plans are to be demolished as part of the work. The only place where there are exceptions to the requirement to demolish all existing finishes is where existing partitions are indicated to remain in the final work, and new finishes are indicated to be applied to those existing partitions to remain. This is a very limited portion of the total required demolition, and the partitions indicated to remain and the finishes required to be applied to those partitions are clearly indicated on the drawings. The finish schedule indicates where new finishes such as paint are to be applied over existing partition construction to remain. The definitions of the finishes to be applied over existing partition construction to remain are provided in a legend on the finish schedule. If there are specific instances of confusion on the part of the bidder we would be happy to address, but generally, we believe the scope of the required demolition and finish work in the renovated areas is shown in a way that should be able to be priced.

Q162. Specification Section 15405A, page 54, Table I, .....could you add cast iron soil pipe and fittings, hub-less to the schedule for interior rainwater conductors aboveground???

A162. Hub-less cast iron soil pipe and fittings will be added to the schedule for above ground interior rainwater conductors.

Q163. What is the length of the lease for the generator?

A163. General Contractor needs to address this item.

Q164. Is a trailer-mounted unit with a mounted auto transfer switch acceptable?

A164. Yes, A trailer mounted generator and automatic transfer switch is acceptable. But, beware that the location where the trailer will go has a very good slope.

Q165. If trailer mounting is not allowed can the generator and fuel tank be 2 separate piece or must it be a sub base mounted tank?

A165. N/A due to answer in item 2.

Q166. Please reference drawing 1/A8.10. Over the veneer plaster columns, FWC-1 is referenced. We did note a specification for this material. Please clarify.

A166. (Remove FWC-1 reference on drawing 1/8-10.)

Q167. The majority of the casework for the project appears to be OFOI, however, this finish schedule indicates counter surfaces for nurses' stations that are not in the contractor's scope.

A167. This is correct.

Q168. Please clarify that nearly all the casework and associates counters are OFOI and the counter information is for reference only.

A168. This is correct.

Q169. Also, it appears the owner is to relocate their casework into the modular building per note on A19-3. Is this correct?

A169. Yes.

Q170. Detail 4/A9.4 references a blinds schedule. We have not located the blinds specification or schedule. Are there blinds on the project?

A170. No, there is not.

Q171. Please clarify type and location.

A171.

Q172. Drawing A2-16 indicates that some space shown will be used as swing lab space. What will this entail in terms of work performed by the contractor?

A172. Remove swing lab space note.



Q173. Specification 10990 describes chalkboards and tack-boards. There are some that are OFOI per the equipment schedule.

A173. All the chalkboards and tack-boards are owner furnished/owner installed.

Q174. Drawing 3/A6.3 shows “vertical wall strips” that appear to be on the finished surface of the drywall per 2/A6.3. These look to be furnished and installed by the owner’s casework manufacturer and installer. Please confirm.

A174. Yes

Q178. Is any X-ray testing in existing concrete walls required for the bolt on steel structure?

A178. Where indicated in the details, the rebar in existing concrete should be located by whatever non-destructive method the contractor chooses. For example, see 12/S5-3.

Q179. It appears that detail 2/S4-3 does not account for the bearing of the architectural pre-cast panel over the existing high pressure steam tunnel extending to the south. Detail 4/A7-5 clearly shows an extension of the grade beam for bearing continuous thru gridline 15. Please advise how we should account for this?

A179. The bidder is referring to 1/S4-3 where the new construction dies into the new enclosure of the existing expansion loop portion of the tunnel. In this case the wall construction will notch over the tunnel roof and bear on it. The span is only 2’-10” as shown in Section 3/S4-3.

Q180. Drawing S2-8 contains numerous details and cuts for the roof deck for the new clearstory, but only details 6, 7 & 8 on S5-2 show the lightweight concrete over the insulation. Please clarify the area of this roof to receive lightweight concrete topping.

A180. There is a roof deck over this whole area; however, the area bounded by Lines 5 to 8 and Lines D to E is an interstitial space for ductwork and not an exterior roof condition. The lightweight concrete is only over the interstitial space as shown in Sections 6, 7 and 8 on Sheet S5-2. Please see 1/A8-11 for additional information.

Q181. Drawing E3-25 & E-26 reference items to be completed on the fourth floor as part of the base bid. The bid form includes any work to be done on the fourth floor as part of Option #1. Please clarify if there is in fact work to occur on the fourth floor as part of the base bid, and if there is any architectural work to occur in these areas as part of the base bid.

A181. There is electrical work on the fourth floor as part of the base bid. There is no architectural work on the fourth floor as part of the base bid.

Q182. Drawing A2-9 shows an existing wall between grid lines F.5-11 to grid line F.5-12.5. The note for this wall references patching wall to create a 1-hour fire rating. Is the intent of this note and similar notes on the drawings to have the General Contractor responsible for patching any penetration regardless of whether it is existing or new?

A182. Yes, the intent is for the contractor to patch all penetrations. The intent of the note was to identify the lengths of walls that have penetrations above the ceiling to alert the contractor to this requirement.

Q183. If the note is referencing patch of existing penetrations, we are requesting an allowance line item or quantity be included if patch of existing penetrations is expected as the job walk did not allow for a quantity of these items to be created nor do the documents make any attempt to represent the amount of work required.

A183.

Q184. From a detailed analysis of the Medical Gas system it has come to our attention that there is no provision on the drawings shown for a temporary system. It is our understanding from the phasing plan specification and the job walk that any areas of the hospital that we are not performing work in will have to remain fully functional, including the medical gas system. Is it the intent of the documents for the contractors to make their own provisions for a temporary system and to recertify the system numerous times as sections of the new system are brought on line and the old shut down?

A184.

Q185. It is our understanding from talking to numerous glazing contractors that the system as drawn/designed will not meet the structural requirements for specification system. It is our understanding that the specifications will take precedence over the architectural drawings, but will the redesign of the modified details and cuts to use a system that meets the required specification fall on the USACE or on the General Contractor?

A185. An amendment will be issued to resolve this question.

Q186. Reference Sheet A4-6 Room Finish Schedule for Corridor #1SC1. The west wall specifies "MBL". No elevations showing the west wall and all the demo notes direct the contractor to remove the existing marble veneer. Please clarify the extent of the Marble veneer to be installed on the wall.

A186. The question will be addressed by the amendment item to the finish schedule: "Refer to the Finish Schedule, A4 Series Drawings: Change the Base Material to GPB at Rooms 1NC1 and 1NC2. Change the Base Color at these rooms to GP-2. Change the wall material (all walls) at Room 1E17A to GWL. Change the color at this room to PT-1. Change the finish of the west wall of Room 1SC1 to ETRP, color to PT-1."

Q187. The room finish schedule for corridor 1NC1 and 1NC2 specify a stone floor and a rubber base. At the end of the corridor 1NC1 a laboratory reception counter detail A5-10 indicates there should be stone base. Please clarify the extent of stone base and whether or not it should be included everywhere there is stone flooring.

A187. Stone base is required everywhere there is stone flooring. The question will be addressed by the amendment item to the finish schedule:

"Refer to the Finish Schedule, A4 Series Drawings: Change the Base Material to GPB at Rooms 1NC1 and 1NC2. Change the Base Color at these rooms to GP-2. Change the wall material (all walls) at Room 1E17A to GWL. Change the color at this room to PT-1. Change the finish of the west wall of Room 1SC1 to ETRP, color to PT-1."

Q188. Reference Wait/lobby Room 1NO1 where stone flooring exists, please provide a detail of the type of threshold desired at the doorways.

A188. The stone pavers will finish flush with the top of the carpet at these locations. No separate threshold is necessary at these locations.

Q198. The room finish schedule for Toilet Room 1E02A specifies CT3 on all walls.

A189. This item will be covered by the amendment noted above for the finish schedule.

Q190. The elevations L and M on sheet A13-2 do not show tile on the walls. Please clarify whether tile is required or not and the height of the tile if it is required.

A190. Provide wall finish materials as indicated in the wall finish schedule, A4 Series drawings.

Q191. The room finish schedule for Toilet Room 1E17A specifies CT3 on all walls. Elevation C on sheet A13-2 shows tile base only. Please clarify which is correct.

A191. This item will be addressed by the amendment noted above for the finish schedule.

Q192. Reference sheet H0-1 of the drawings. Asbestos general note number 8 indicates there is a "Hazardous materials pre-renovation inspection report" that is appended to the drawings. We cannot seem to find the report could you please provide this to us for review.

A192. The report has been included in an amendment.

Q193. Reference sheet H0-1 of the drawings. Asbestos general note number 16 the note directs the contractor to seal the cavity before completion of abatement. How many holes should we assume per cavity to seal? What are acceptable materials to seal the holes with as indicated in the note.

A193. We don't understand this question. The hole to be sealed is the void in the partition that is full height. The type of material to used is addressed in note 16.

Q194. We have not been able to find any soils report information or boring for the new additions will any of this information be available to us prior to submission of our proposal?

A1943. The soils report was included in an amendment.

Q195. Please indicate whether or not the waste line drop in the modular building can be relocated to the center of the modular as opposed to the one end where it is currently located.

A195. Bid the drawings as indicated.

Q196. There is some concern about the schedule for the modular buildings. If the submittal review process takes a significant amount of time there will be no way to complete the building and certify its use prior to the 120-day time frame. Please indicate the submittal review time for this scope of work.

A196. The submittal review time will be as indicated in the bid documents.

Q197. Tele / Data communication one-line drawings reference option 2 and Specification 16711 is a bid option for telecommunications cabling system. Pricing Schedule does not reflect this bid option. Please comment.

A197. In regards to the question, the intent with denoting the communications as an option was to allow the Govt to delete this work (insuring a fair and reasonable price), if the AF decides to execute with their contractor. This item will be further clarified in an amendment.

Q198. GE Medical reference drawings for MRI and CT systems indicate cabling by electrical contractor. These are only issued as reference drawings for this project. Please confirm if the work indicated on these drawings is to be included in this bid, or if this will be contracted separately with system provider.

A198. In regards to question #2, the MRI and CT are Govt furnished/Govt Installed. The GC will be responsible for insuring adequate power is available.